

Fanny Rodolakis

a.k.a. Fanny Simoes

Advanced Photon Source
Argonne National Laboratory
Bldg 437-D004
9700 South Cass Ave
Argonne, IL 60439

Office : +1 (630) 252-6817
Lab : +1 (630) 252-2601
Cell : +1 (312) 972-9917
Email : rodolakis@anl.gov

RESEARCH INTERESTS

My research focuses on using synchrotron based X-ray techniques like ARPES, XAS and RSXS, to probe collective electronic behavior in strongly correlated systems and its relation to emergent phenomena such as heavy fermions, high Tc superconductivity and metal-insulator transitions.

EDUCATION

Oct 2006 - Dec 2009	Ph.D. Physics	Université Paris-Sud (Orsay, France). Defended on December 4th, 2009.
Sep 2005 - Jun 2006	M.S. Physics	Université Paris-Sud (Orsay, France). GPA 3.54.
Sep 2001 - Jun 2005	B.S. Physics	Université F. Rabelais (Tours, France). GPA 3.69 (Rank 1/14).

RESEARCH EXPERIENCE

Apr. 2020 - Present	Physicist , Magnetic Material Group, X-Ray Science Division, Advanced Photon Source, Argonne National Laboratory (Argonne, IL).
Sep. 2015 - Mar. 2020	Assistant Physicist , Magnetic Material Group, X-Ray Science Division, Advanced Photon Source, Argonne National Laboratory (Argonne, IL).

Research Interest : Exploring electronic structure and ordering in strongly correlated electron systems using resonant soft x-ray scattering (RSXS) and angle-resolve photoemission spectroscopy (ARPES).
Instrumentation : Construction, commissioning, maintenance and user support at the [29-ID IEX beamline](#).

Sep. 2014 - Sep. 2015	NIST-CHiMaD Postdoctoral Fellow , Center for Hierarchical Materials Design (CHiMaD), a part of the Northwestern University Argonne National Laboratory Institute of Science and Engineering (NAISE, Evanston & Argonne, IL) and National Institute of Standards and Technology (NIST, Gaithersburg, MD); Nov. 2014 - Sep. 2015.
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Postdoctoral Scholar, University of Chicago Institute for Molecular Engineering (Chicago, IL); Sep 2014 - Oct 2014.

Advisors : Prof. P. Nealey, Dr. J. Kline.

Research Interest : Exploring order in soft matter and correlated electron systems using resonant soft x-ray scattering (RSXS), as well as collaborating with and assisting incoming RSXS users at the Intermediate Energy X-ray (IEX) beamline at the Advanced Photon Source (APS), Argonne National Laboratory (Argonne, IL).

Instrumentation : Construction, commissioning and maintenance of the RSXS endstation at the IEX beamline.

Jun. 2011 - Sep. 2014 **Postdoctoral Research Associate**, Synchrotron Radiation Studies Group of the Material Science Division, Argonne National Lab. (Argonne, IL, USA).

Jun. 2010 - May 2011 **Postdoctoral Research Associate** , Department of Physics at the University of Illinois at Chicago (Chicago, IL, USA).

Advisor : Prof. J.C. Campuzano.

Research Interest : Electronic properties of strongly correlated systems : heavy fermions; high T_c superconductors.

Instrumentation : Conception and design of an original experimental set-up allowing ARPES measurement while applying 4-probes current through the sample.

Design and assembly of a state-of-the-art ARPES equipment using Scienta R4000 analyzer.

Oct 2006 - Feb 2010 **Ph.D. Condensed Matter Physics** at Université Paris-Sud, France.

Supervisors : Dr. Jean-Pascal Rueff & Prof. Marino Marsi.

Laboratories : Synchrotron SOLEIL (Gif, France), Laboratoire de Physique des Solides (Orsay, France).

Title : Electronic phase transitions in strongly correlated vanadium oxides studied by synchrotron radiation based spectroscopies.

TEACHING EXPERIENCE

Fall 2007 & 2008 **Teaching assistant** : Postgraduate degree, Université Paris-Sud, France.
Laboratory sessions in Physics, *X-ray Diffraction*, 48h.

Spring 2007 & 2008 **Teaching assistant** : Postgraduate degree, Université Paris-Sud, France.
Laboratory sessions in Physics, *InfraRed Spectroscopy*, 120h.

PUBLICATIONS

1. Zhuoyu Chen, Motoki Osada, Danfeng Li, Emily M. Been, Su-Di Chen, Makoto Hashimoto, Donghui Lu, Sung-Kwan Mo, Kyuho Lee, Bai Yang Wang, F. Rodolakis, J. L. McChesney, Chunjing Jia, Brian Moritz, Thomas P. Devereaux, Harold Y. Hwang, Zhi-Xun Shen
Electronic structure of superconducting nickelates probed by resonant photoemission spectroscopy.
[Matter, in press, \(2022\)](#)

2. Shenli Zhang, I-Ting Chiu, Min-Han Lee, Brandon Gunn, Mingzhen Feng, Tae Joon Park, Padraic Shafer, Alpha T. NDiaye, F. Rodolakis, Shiriram Ramanathan, Alex Frano, Ivan K. Schuller, Yayoi Takamura, Giulia Galli
Determining the Oxygen Stoichiometry of Cobaltite Thin Films .
Chemistry of Materials **34**, 5, 2076-2084 (2022)
3. Megha Vagadia, Suman Sardar, Tejas Tank, Sarmistha Das, Brandon Gunn, Parul Pandey, R. HÄ^{1/4}bner, F. Rodolakis, Gilberto Fabbris, Yongseong Choi, Daniel Haskel, Alex Frano, D.S. Rana
Extraordinary anisotropic magnetoresistance in CaMnO₃/CaIrO₃ heterostructures.
Phys. Rev. B **105**, L020402 (2022)
4. Z. Zhang, S. Mondal, S. Mandal, J. M. Allred, N. Alsadat Aghamiri, A. Fali, Z. Zhang, H. Zhou, H. Cao, F. Rodolakis, J. L. McChesney, Q. Wang, Y. Sun, Y. Abate ,K. Roy, K.M. Rabe, and S. Ramanathan.
Neuromorphic learning with Mott insulator NiO.
Proceedings of the National Academy of Sciences **118**, 39 (2021)
5. M.K. Wallace, J. Li, P.G. Labarre, S. Svadlenak, D. Haskel, J. Kim, G. E. Sterbinsky, F. Rodolakis, H. Park, A.P. Ramirez, M.A. Subramanian.
Structural and electronic properties of the first iridium containing mixed B-site spinel oxide : Cu[Ir_{1.5}Cu_{0.5}]O₄
Physical Review Materials **5**, 094410 (2021).
6. X Guo, S. Lee, T. A. Johnson, J. Chen, P. Vandeventer, A.A.bHusain, F. Rodolakis, J. L. McChesney, P. Shafer, H. Huang, J.S. Lee, J. Schneeloch, R. Zhong, G. D. Gu, M. Mitrano, and P. Abbamonte.
Search for Q ~ 0 Order near a Forbidden Bragg Positionin Bi_{2.1}Sr_{1.9}CaCu₂O_{8+x} with Resonant Soft X-ray Scattering.
Journal of the Physical Society of Japan **90**, 111007 (2021).
7. E. H. Shourov, P. J. Strohbeen, D. Du, A. Sharan, F. C. de Lima, F. Rodolakis, J. L. McChesney, V. Yannello, A. Janotti, T. Birol, J. K. Kawasaki.
Electronic correlations in the semiconducting half-Heusler compound FeVSb
Phys. Rev. B **103**, 045134 (2021).
8. S. Lei, S.M.L. Teicher, A. Topp, K. Cai, J. Lin, G. Cheng, T.H. Salters, F. Rodolakis, J.L. McChesney, S. Lapidus, N. Yao, M. Krivenkov, D. Marchenko, A. Varykhalov, C.R. Ast, R. Car, J. Cano, M.G. Vergniory, N.P. Ong, L.M. Schoop.
Band Engineering of Dirac Semimetals Using Charge Density Waves *Advanced Materials* **33**, 2101591 (2021)
9. Y. I. Joe, Y. Fang, S. Lee, S.X.L. Sun, G.A. de la Pena, W. B. Doriese, K. Morgan, J. Fowler, F. Rodolakis, J. L. McChesney, D. Swetz, J. Ullom and P. Abbamonte
Resonant soft x-ray scattering from stripe-ordered La_{2-x}Ba_xCuO₄ using a transition edge sensor array detector.
Phys. Rev. Applied **13**, 034026 (2020).
10. Z. W. Lebans-Higgins, H. Chung, M. J. Zuba, Y. Li, N. V. Faenza, N. Pereira, B. D. McCloskey, F. Rodolakis, W. Yang, G. G. Amatucci, Y. S. Meng, T. L. Lee, and L. F. J. Piper.
How Bulk Sensitive is HAXPES : Accounting for Surface Reduction when Addressing Oxygen Redox.
J. Phys. Chem. Lett. **11**, 6, 2106-2112 (2020).
11. S. Lei, J. Lin, Y. Jia, M. Gray, A. Topp, G. Farahi, S. Klemenz, F. Rodolakis, J. L. McChesney, C. R. Ast, A. Yazdani, K. S. Burch, S. Wu, N. P. Ong and L. M. Schoop.
High mobility in a van der Waals layered antiferromagnetic metal .
Science Advances, **6**, 6 (2020).

12. Y. Sun, T.N.H. Nguyen, A. Anderson, X. Cheng, T.E. Gage, Z. Zhang, H. Zhou, F. Rodolakis, Z. Zhang, I. Arslan, A.A. Chubykin, H. Lee, S. Ramanathan.
In Vivo Glutamate Sensing inside the Mouse Brain with Perovskite Nickelate Nafion Heterostructures.
[ACS Appl. Mater. Interfaces 12, 24564 - 24574 \(2020\).](#)
13. S. Tammes, T. Roth, P. Kaaret, C. DeRoo, A. Elmaleh, J. L. McChesney, F. Rodolakis.
Soft x-ray detection for small satellites with a commercial CMOS sensor at room temperature
[J. Astro. Tel. 6, 046004 \(2020\).](#)
14. K. P. Wootton, J. L. McChesney, F. Rodolakis, N. S. Sereno, B. X. Yang.
Transverse emittance measurement using undulator high harmonics for diffraction limited storage rings.
IBIC 19 Proceeding, accepted (Sep 2019).
15. D. Du, A. Lim, C. Zhang, P. Strohbeen, E. Shourov, F. Rodolakis, J. L. McChesney, P. M. Voyles, D. C. Fredrickson and J. K. Kawasaki1.
High electrical conductivity in the epitaxial polar metals LaAuGe and LaPtSb .
[APL Materials 7, 121107 \(2019\).](#)
16. M. Kotiuga , Z. Zhang, J. Li, F. Rodolakis, H. Zhou, R. Sutarto, F. He, Q. Wang, Y. Sun, Y. Wang, N. Alasadat Aghamiri, S. Bennett Hancock, L. Rokhinson, D. Landau, Y. Abate, J. W. Freeland, R. Comin, S. Ramanathan, K. M. Rabe.
Carrier localization in perovskite nickelates from oxygen vacancies.
[Proceedings of the National Academy of Sciences 116 \(44\) 21992-21997 \(2019\).](#)
17. P. Li, Z. Wu, F. Wu, C. Guo, Y. Liu, Z. Sun, M. Shi, F. Rodolakis, J. L. McChesney, C Cao, F. Steglich, H. Yuan, Y. Liu.
Large Fermi surface expansion through anisotropic mixing of conduction and f electrons in the semimetallic Kondo lattice CeBi.
[Physical Review B 100, 155110 \(2019\).](#)
18. S. A. Howard, C. N. Singh, G. J. Paez, M. J. Wahila, L. W. Wangoh, S. Sallis, K. Tirpak, Y. Liang, D. Prendergast, M. Zuba, J. Rana, A. Weidenbach, T. M. McCrone, W. Yang, T. L. Lee, F. Rodolakis, W. Doolittle, W. C. Lee, and L. F. J. Piper.
Direct observation of delithiation as the origin of analog memristance in Li_xNbO_2 .
[APL Materials 7, 071103 \(2019\).](#)
19. M. J. Wahila, G. Paez, C. N. Singh, A. Regoutz, S. Sallis, J. Rana, M. B. Tellekamp, J. E. Boschker, T. Markurt, J. E. N. Swallow, L. A. H. Jones, T. D. Veal, W. Yang, T. L. Lee, F. Rodolakis, J. T. Sadowski, D. Prendergast, W. C. Lee, W. A. Doolittle, L. F. J. Piper.
Evidence of a Second-Order Peierls-Driven Metal-Insulator Transition in Crystalline NbO_2 : A Novel Electroforming-Free Switching Mechanism for Analog Memristors .
[Physical Review Materials 3, 074602 \(2019\).](#)
20. W. Wei, T.Y. Kim, A. Balamurugan, J. Sun, R. Chen, A. Ghosh, F. Rodolakis, J. L. McChesney, A. Lakkham, P. G. Evans, S.M. Hur, P. Gopalan.
Phase-Behavior of Mixed Polymer Brushes Grown from Ultra-thin Coatings .
[ACS Macro Lett. 8, 1086 \(2019\).](#)
21. W.C. Lee, M.J. Wahila, S. Mukherjee, T. Eustance, C.N. Singh, H. Paik, F. Rodolakis, D. G. Schlom, L.F. J. Piper.
Cooperative Effects of Strain and Electron Correlation in Epitaxial VO_2 and NbO_2 .
[Journal of Applied Physics 125, 082539 \(2019\)](#)

22. P. J. Strohbeen, D. Du, C. Zhang, E. H. Shourov, F. Rodolakis, J. L. McChesney, P. M. Voyles, and J. K. Kawasaki1.
Electronically enhanced layer buckling and Au-Au dimerization in epitaxial LaAuSb films .
Physical Review Materials **3**, 024201 (2019).
23. S. Kearney, D. Shu, F. Rodolakis, D. Arms, P. Jemian and J. McChesney.
Mechanical Design of a UHV Non-Magnetic Kappa Diffractometer.”.
AIP Conference Proceedings **2054**, 060039 (2019).
24. A. Topp, M. G. Vergniory, M. Krivenkov, A. Varykhalov, F. Rodolakis, J. L. McChesney, B. V. Lotsch, C. R. Ast, L. M. Schoop
The effect of spin-orbit coupling on nonsymmorphic square-net compounds.
Journal of Physics and Chemistry of Solids **128**, 296 (2019).
25. A. Topp, R. Queiroz, A. GrÃ¼neis, L. MÃ¼chler, A. Rost, A. Varykhalov, D. Marchenko, M. Krivenkov, F. Rodolakis, J. L. McChesney, B. V. Lotsch, L. M. Schoop, C. R. Ast
Surface floating 2D bands in layered nonsymmorphic semimetals : ZrSiS and related compounds.
Physical Review X **7**, 041073 (2017).
26. W. Doriese, Peter Abbamonte, Bradley Alpert, Douglas Bennett, Edward Denison, Y. Z. Fang, Daniel A. Fischer, Colin Fitzgerald, Joseph Fowler, Johnathon Gard, James Hays-Wehle, Gene Hilton, Cherno Jaye, Jessica McChesney, Luis Miaja-Avila, Kelsey Morgan, Young Il Joe, G. O’Neil, C. D. Reintsema, F. Rodolakis, Dan Schmidt, Hideyuki Tatsuno, Jens Uhlig, L. R. Vale, Joel Ullom, and Daniel Swetz.
A practical superconducting-microcalorimeter X-ray spectrometer for beamline and laboratory science.
Review of Scientific Instruments **88**, 053108 (2017).
27. M. V. Fisher, L. Assoufid, J. McChesney, J. Qian, R. Reininger, F. Rodolakis. “Minimizing grating slope errors in the IEX monochromator at the Advanced Photon Source”.
9th Mechanical Engineering Design of Synchrotron Radiation Equipment and Instrumentation Conference (2016).
28. F. Rodolakis, C. Adriano, F. Restrepo, P. F. S. Rosa, P. G. Pagliuso, J.C. Campuzano “Fermi surface collapse and energy scales in Ce_2RhIn_8 ”.
[arXiv:1809.02682](https://arxiv.org/abs/1809.02682).
29. C. Adriano, F. Rodolakis, P. F. S. Rosa, F. Restrepo, J. Zhao, M. A. Continentino, Z. Fisk, J. C. Campuzano, and P. G. Pagliuso. “Unveiling the hybridization gap in Ce_2RhIn_8 heavy fermion compound”.
[arXiv:1502.02544](https://arxiv.org/abs/1502.02544).
30. F. Iori, F. Rodolakis, M. Gatti, L. Reining, M. Upton, Y. Shvydko, J.P. Rueff, and M. Marsi. “Low-energy excitations in strongly correlated materials : A theoretical and experimental study of the dynamic structure factor in V_2O_3 ”.
Physical Review B **86**, 205132 (2012).
31. P. Hansmann, M.W. Haverkort, A. Toschi, G. Sangiovanni, F. Rodolakis, J.-P. Rueff, M. Marsi and K. Held. “Atomic and itinerant effects at the transition metal x-ray absorption K-pre-edge exemplified in the case of V_2O_3 ”.
Physical Review B **85**, 115136 (2011).
32. F. Rodolakis, J.-P. Rueff, M. Sikora, I. Alliot, J.-P. Itié, F. Baudelet, S. Ravy, P. Wzietek, P. Hansmann, A. Toschi, M. W. Haverkort, G. Sangiovanni, K. Held, P. Metcalf, and M. Marsi, “Evolution of the electronic structure of a Mott system across its phase diagram : X-ray absorption spectroscopy study of $(V_{1-x}Cr_x)_2O_3$ ”.
Physical Review B **84**, 245113 (2011).

33. F. Rodolakis, P. Hansmann, J.-P. Rueff, A. Toschi, M.W. Haverkort, G. Sangiovanni, A. Tanaka, T. Saha-Dasgupta, K. Held, M. Sikora, I. Alliot, J.-P. Itié, F. Baudelet, P. Wzietek, P. Metcalf, and M. Marsi, “*Inequivalent routes across the Mott transition in V_2O_3 explored by X-ray absorption*”. [Physical Review Letters 104, 047401 \(2010\)](#).
34. S. Lupi, L. Baldassarre, B. Mansart, A. Perucchi, A. Barinov, P. Dudin, E. Papalazarou, F. Rodolakis, J.-P. Rueff, J.-P. Itié, S. Ravy, D. Nicoletti, P. Postorino, P. Hansmann, N. Parragh, A. Toschi, T. Saha-Dasgupta, O. K. Andersen, G. Sangiovanni, K. Held, M. Marsi, “*A Microscopic View on the Mott transition in Chromium-doped V_2O_3* ”. [Nature Communication 1:105, doi: 10.1038/ncomms1109 \(2010\)](#).
35. F. Rodolakis, B. Mansart, E. Papalazarou, S. Gorovikov, P. Vilmercati, L. Petaccia, A. Goldoni, J.-P. Rueff, S. Lupi, P. Metcalf, and M. Marsi, “*In a correlated metal, quasiparticles are not superficial at all*”. [Elettra Highlights 2008-2009, 58 \(2009\)](#).
36. F. Rodolakis, P. Hansmann, J.-P. Rueff, A. Toschi, M.W. Haverkort, G. Sangiovanni, K. Held, M. Sikora, A. Congeduti, J.-P. Itié, F. Baudelet, P. Metcalf, and M. Marsi, “*Electronic correlations in V_2O_3 studied with K-edge X-ray absorption spectroscopy*”. [Journal of Physics: Conference Series 190, 012092 \(2009\)](#).
37. F. Rodolakis, B. Mansart, E. Papalazarou, S. Gorovikov, P. Vilmercati, L. Petaccia, A. Goldoni, J.-P. Rueff, S. Lupi, P. Metcalf, and M. Marsi, “*Quasiparticles at the Mott transition in V_2O_3 : wavevector dependence and surface attenuation*”. [Physical Review Letters 102, 066805 \(2009\) - Selected for Physics Synopsis, February 17 \(2009\)](#).

SELECTED PRESENTATIONS

F. Rodolakis “*New Opportunities at the APS : Using Intermediate Energy X-rays to Investigate Emergent Materials.*”

SCES 2020, International Conference on Strongly Correlated Electron Systems, Brazil (virtual), September 29 (2021).

F. Rodolakis “*New Opportunities at the APS : Using Resonant Soft X-rays Scattering to Investigate Emergent Materials.*”

2020 Virtual SSRL/LCLS Users’ Meeting, Resonant Elastic and Inelastic X-ray Scattering applications for Quantum and Energy Materials : Transition-Edge-Sensor (TES) Applications Workshop, October 9 (2020). [Invited]

F. Rodolakis “*Bringing the UECs together to better advocate for the User Facilities.*”

SSURF Annual Meeting, November 12-13, College Park (2019). [Invited]

F. Rodolakis “*New Opportunities at the APS : Using Intermediate Energy X-rays to Investigate Collective Behavior in Interacting Electron Systems.*”

HAXPES-2019, June 2-7, Paris, France (2019).

F. Rodolakis “*Inequivalent Routes across the Mott Transition : A spectroscopic & structural study of the metal insulator transition in vanadium sesquioxide.*”

2016 ALS User Meeting, October 3-5, Berkeley, CA, USA (2016). [Invited]

F. Rodolakis, ‘*New Opportunities at the APS : Using intermediate energy X-rays to investigate collective behavior in interacting electron systems.*’

ALS seminar, June 24, Berkely, CA, USA (2015). [Invited]

F. Rodolakis, J.-P. Rueff and M. Marsi, “*Surface attenuation of the quasiparticles at the metal-insulator transition in vanadium oxides.*”

2014 AVS Prairie Chapter Symposium, September 10, Chicago, IL, USA (2014).

F. Rodolakis, C. Adriano, F. Restrepo, P. F. S. Rosa, P. G. Pagliuso and J. C. Campuzano “*Fermi surface collapse, gap, coherence : an ARPES study of the hybridization in Ce₂RhIn₈.*”

APS March Meeting 2014, March 3-7, Denver, CO, USA (2014).

F. Rodolakis, C. Adriano, P. F. S. Rosa, F. Restrepo and J. C. Campuzano “*Fermi Surface collapsing in Ce₂RhIn₈.*”

SRC Quantum Lunch, July 10, Synchrotron Radiation Center, Stoughton, WI, USA (2013). [Invited]

F. Rodolakis, C. Adriano, P. F. S. Rosa, F. Restrepo, P. G. Pagliuso and J. C. Campuzano “*Fermi Surface evolution as a function of temperature in heavy fermion Ce₂RhIn₈ probed by ARPES.*”

APS March Meeting 2013, March 18-22, Baltimore, MD, USA (2013).

F. Rodolakis, P. Hansmann, J.-P. Rueff, P. Wzietek, J.-P. Itié, A. Congeduti, F. Baudelet, M. Sikora, P. Glatzel, I. Alliot, J.-L. Hazemann, I. Jarrig, Y.Q. Cai, P. Metcalf, and M. Marsi, “*Mott transition in V₂O₃ : a high resolution X-ray absorption spectroscopy study.*”

14th International Conference on X-ray Absorption Fine Structure (XAFS14), July 26-31, Camerino, Italy (2009).

F. Rodolakis, J.-P. Rueff, I. Alliot, and M. Marsi, “*Spectroscopic study of metal-insulator transition in vanadium dioxide VO₂.*”

Synchrotron and neutron radiations workshop (Journée axe transverse rayonnement synchrotron et neutronique), March 18, Grenoble, France (2009). [Invited]

PROFESSIONAL SERVICES

Advanced Photon Source :

Sept 2020 - Aug 2021 : Photon Sciences Directorate Associate Laboratory Director search committee.

Since 2020 : Photon Sciences Directorate Diversity Equity & Inclusion Co-Chair.

Since 2019 : X-ray Scientific Division Diversity Equity & Inclusion representative.

2017-2019 : APS co-chair of the Argonne Next Generation Society.

Advanced Light Source Scientific Advisory Committee :

CY 2019 : *Ex-officio* member of the [ALS SAC](#).

Advanced Light Source User Executive Committee :

CY 2020 : ALS UEC Past-Chair.

CY 2019 : ALS UEC Chair.

CY 2018 : ALS UEC Vice-Chair .

CY 2017 : ALS UEC Secretary.

CY 2016 : appointed ALS UEC member (2016-2018).

Society for Science at User Research Facilities :

SSURF Annual Meeting 2020 organization committee member.

SSURF operation committee member.

Selected by SSURF to represent the ALS during congressional visits (Nov 2019)

Selected by SSURF to represent the ALS during congressional visits (June 2018)

Conference Organization :

ALS User Meeting 2021 : Workshop co-organizer "[Light Sources 101](#)" (Aug. 10-13, 2020).

ALS User Meeting 2020 : Workshop co-organizer "[Light Sources 101](#)" (Aug. 25-28, 2020).

ALS User Meeting 2019 : Workshop co-organizer "[Light Sources 101](#)" (Oct. 1-3, 2019).

ALS User Meeting 2018 : Workshop co-organizer "[Light Sources 101](#)" (Oct. 1-3, 2018).

ALS User Meeting 2016 : Program co-chair of the [ALS User meeting](#) (Oct. 3-5, 2016).

Reviewing activities

[Advanced Light Source \(ALS\)](#) proposal review (2021).

[Stanford Synchrotron Radiation Lightsource \(SSRL\)](#) proposal review (2019,2020,2021).

[Physical Review B](#) (2012,2019).

[Review of Scientific Instruments](#) (2018, 2017, 2015)

[Physical Review X](#) (2018, 2017)

[Physical Review Applied](#) (2016)

[Scientific Reports - Nature](#) (2014)

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